WHAT IS CLAIMED IS:

- 1. A method for fabricating a light-emitting device, the method comprising:
- (a) sequentially forming a first compound semiconductor layer, an active layer, and a second compound semiconductor layer, which are for inducing light emission, on a high-resistant substrate;
- (b) forming a light-transmitting conductive layer on the second compound semiconductor layer;
- (c) etching a region of the high-resistant substrate to expose the first compound semiconductor layer; and
- (d) forming a high-shielding conductive layer to cover the exposed region of the first compound semiconductor layer.
- 2. The method of claim 1, wherein step (c) comprises: polishing the bottom of the high-resistant substrate; and exposing the bottom of the first compound semiconductor layer by etching the region of the high-resistant substrate.
- 3. The method of claim 2, wherein the high-resistant substrate is a sapphire substrate.
- 4. The method of claim 2, wherein the bottom of the high-resistant substrate is polished by grinding or lapping.
- 5. The method of claim 1, wherein the high-resistant substrate is dry etched using a reaction gas comprising at least Cl₂ or BCl₃.
- 6. The method of claim 5, wherein the reactant gas further comprises Ar gas.
- 7. The method of claim 2, wherein the high-resistant substrate is dry etched using a reaction gas comprising at least Cl₂ or BCl₃.

- 8. The method of claim 7, wherein the reactant gas further comprises Ar gas.
- 9. The method of claim 2, wherein the high-resistant substrate is etched to form a via hole through which the bottom of the first compound semiconductor layer is exposed.
- 10. The method of claim 2, wherein the high-resistant substrate is etched to remove the remaining region other than the region of the high-resistant substrate.
- 11. The method of claim 1, further comprising forming a pad layer on the light-transmitting conductive layer.
- 12. A method for fabricating a light-emitting device, the method comprising:
- (a) sequentially forming a first compound semiconductor layer, an active layer, and a second compound semiconductor layer, which are for inducing light emission, on a high-resistant substrate;
- (b) forming a light-reflecting conductive layer on the second compound semiconductor layer;
- (c) etching a region of the high-resistant substrate to expose the first compound semiconductor layer; and
- (d) forming a light-transmitting conductive layer to cover the exposed region of the first compound semiconductor layer.
- 13. The method of claim 12, wherein step (c) comprises: polishing the bottom of the high-resistant substrate; and exposing the bottom of the first compound semiconductor layer by etching the region of the high-resistant substrate.
- 14. The method of claim 13, wherein the high-resistant substrate is a sapphire substrate.

- 15. The method of claim 13, wherein the bottom of the highresistant substrate is polished by grinding or lapping.
- 16. The method of claim 12, wherein the high-resistant substrate is dry etched using a reaction gas comprising at least Cl₂ or BCl₃.
- 17. The method of claim 16, wherein the reactant gas further comprises Ar gas.
- 18. The method of claim 13, wherein the high-resistant substrate is dry etched using a reaction gas comprising at least Cl₂ or BCl₃.
- 19. The method of claim 18, wherein the reactant gas further comprises Ar gas.
- 20. The method of claim 13, wherein the high-resistant substrate is etched to form a via hole through which the bottom of the first compound semiconductor layer is exposed.
- 21. The method of claim 13, wherein the high-resistant substrate is etched to remove the remaining region other than the region of the high-resistant substrate.
- 22. The method of claim 12, further comprising forming a pad layer on the light-transmitting conductive layer.
- 23. A method for fabricating a light-emitting device, the method comprising:
 - (a) forming a material layer for lasing on a high-resistant substrate;
 - (b) forming a first electrode on the material layer;
- (c) etching a region of the high-resistant substrate to expose a region of the material layer; and
- (d) forming a second electrode on the bottom of the high-resistant substrate to cover partially or fully the exposed region of the material layer.

24. The method of claim 23, wherein step (a) comprises: sequentially forming a first compound semiconductor layer, a first cladding layer, a resonator layer, a second cladding layer, and a second compound semiconductor layer on the high-resistant substrate;

forming a mask pattern on the second compound semiconductor layer to cover a predetermined region of the second compound semiconductor layer;

sequentially patterning the second compound semiconductor layer and the second cladding layer using the mask pattern as an etch mask, the second cladding layer into a rigid form;

removing the mask pattern; and

forming a passivation layer on the second cladding layer patterned into the ridge form, in contact with a region of the patterned second compound semiconductor layer.

- 25. The method of claim 24, wherein step (c) comprises: polishing the bottom of the high-resistant substrate; and exposing the bottom of the first compound semiconductor layer by etching the region of the high-resistant substrate.
- 26. The method of claim 25, wherein the high-resistant substrate is a sapphire substrate.
- 27. The method of claim 25, wherein the bottom of the highresistant substrate is polished by grinding or lapping.
- 28. The method of claim 23, wherein the high-resistant substrate is dry etched using a reaction gas comprising at least Cl₂ or BCl₃.
- 29. The method of claim 25, wherein the high-resistant substrate is dry etched using a reaction gas comprising at least Cl₂ or BCl₃.

- 30. The method of claim 28, wherein the reactant gas further comprises Ar gas.
- 31. The method of claim 29, wherein the reactant gas further comprises Ar gas.
- 32. The method of claim 25, wherein the high-resistant substrate is etched to form a via hole through which the bottom of the first compound semiconductor layer is exposed.
- 33. The method of claim 25, wherein the high-resistant substrate is etched to remove the remaining region other than the region of the high-resistant substrate.
- 34. The method of claim 24, wherein the resonator layer is formed by sequentially forming a first waveguide layer, an active layer, and a second waveguide layer on the first cladding layer.
- 35. The method of claim 23, wherein step (d) comprises: forming an ohmic contact layer on the bottom of the high-resistant substrate to cover partially or fully the exposed region of the material layer; and

forming a thermal conductive layer on the ohmic contact layer.